

WHAT IS CLAIMED IS:

Sub 1

1. A yarn comprising
 - a. at least one bundle of fiber, said bundle being ring spun or wrap spun with
 - b. a second fiber comprising a heat-activated binder material having a melting point range of about 105° to 190°C under ambient humidity conditions, said yarn comprising a total of 0.1 to 12 weight percent binder material.
2. The yarn of claim 1 comprising 0.25 to 10 weight percent binder material.
3. The yarn of claim 1 comprising 0.5 to 8 weight percent binder material.
4. The yarn of claim 1 wherein the bundle of fiber is staple fibers.
5. The yarn of claim 1 wherein the bundle of fibers is a sliver.
6. The yarn of claim 1 wherein the bundle of fibers is continuous filaments.
7. The yarn of claim 1 wherein the second fiber comprises a heat-activated binder fiber.
8. The yarn of claim 7 wherein said binder fiber is a copolyamide.
9. The yarn of claim 8 wherein said binder fiber is a copolyamide of the nylon 6/nylon 6,6 type.
10. The yarn of claim 1 wherein the bundle of fiber is nylon 6.
11. The yarn of claim 1 wherein the bundle of fiber is staple fibers wrap spun with the wrapping fiber, and the wrapping fiber forms substantially all of the heat-activated binder material.
12. The yarn of claim 11 wherein the staple fibers are selected from the group consisting of nylon 6 and nylon 6-6, and wherein the heat-activated binder material is a copolyamide having a melting point range of 165° to 190°C under ambient humidity conditions.
13. An article made from the yarn of claim 1.
14. A tufted article made from the yarn of claim 1.
15. A carpet including the yarn of claim 1 as a face yarn.

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16. A process for producing a yarn suitable for tufting, said process comprising the steps of:

- a. forming a bundle of fiber;
- b. ring spinning or wrap spinning the bundle of fiber with a second fiber
- 5 comprising a heat-activated binder material having a melting point range of about 105° to 190°C under ambient humidity conditions to form a yarn comprising 0.1 to 12 weight percent of the binder material;
- c. heating the yarn sufficiently to melt the binder material; followed by
- d. cooling the yarn to solidify the binder material.

10 17. The process of claim 16 wherein said heating step is accomplished during twist setting of the yarn.

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18. The process of claim 16 wherein the bundle of fiber is formed by spinning staple fiber.

19. A wrap spun yarn made in accordance with the process of claim 16.

15 20. A ring spun yarn made in accordance with the process of claim 16.

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